TOM050 T27EE400

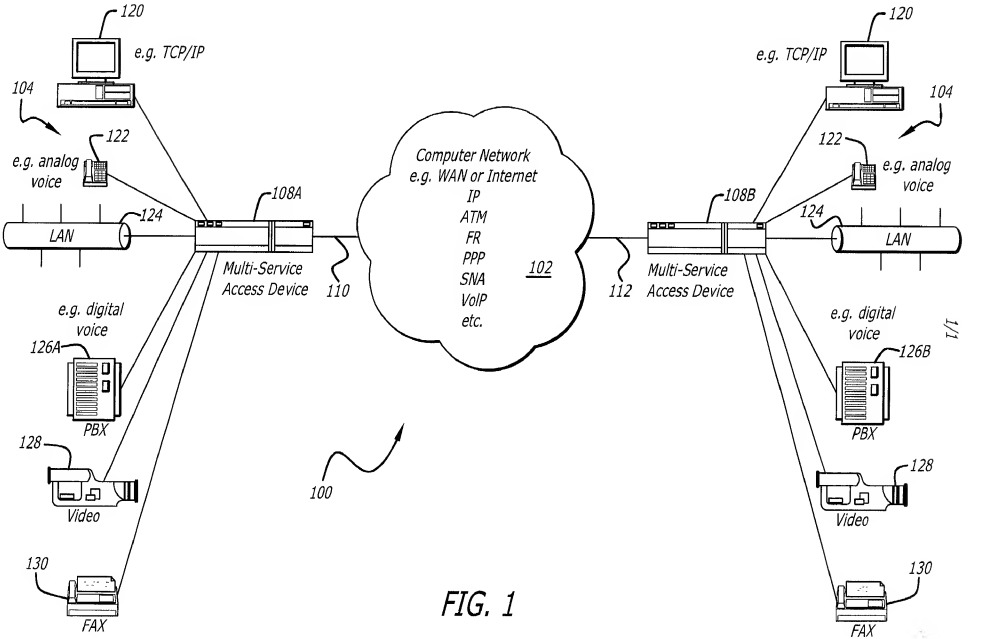

FIG. 1

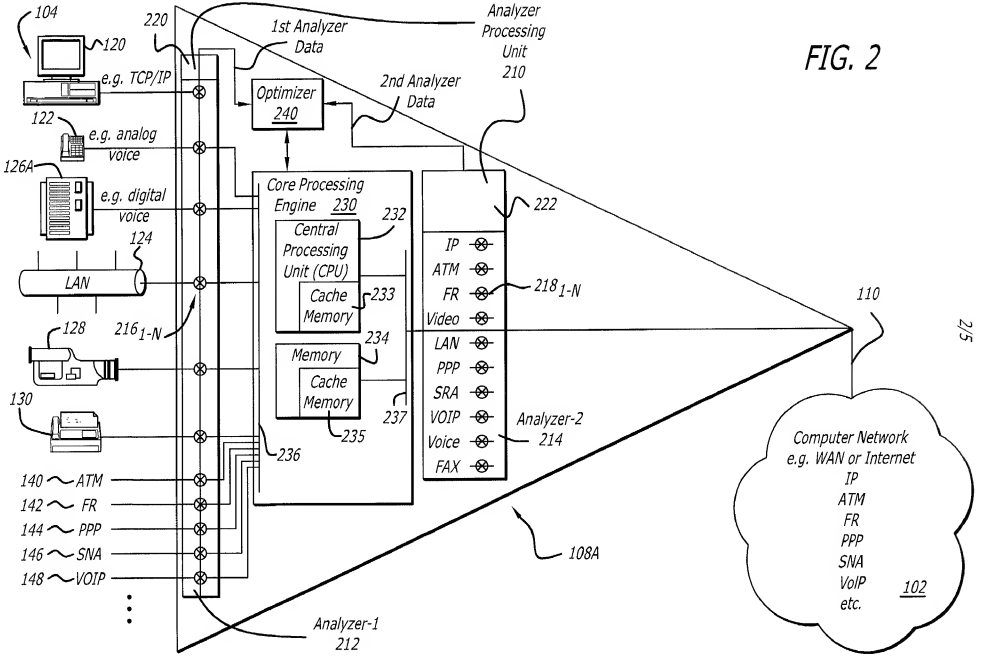
104
120
e.g. TCP/IP
122
e.g. analog voice
126A
e.g. digital voice
124
LAN
128
130
140 ATM
142 FR
144 PPP
146 SNA
148 VOIP
220
1st Analyzer Data
2nd Analyzer Data
Analyzer Processing Unit 210
Optimizer 240
Core Processing Engine 230
Central Processing Unit (CPU)
Cache Memory
Memory
Cache Memory
232
233
234
235
236
237
222
IP
ATM
FR
Video
LAN
PPP
SRA
VOIP
Voice
FAX
Analyzer-2 214
Analyzer-1 212
108A
110
Computer Network
e.g. WAN or Internet
IP
ATM
FR
PPP
SNA
VoIP
etc.
102

FIG. 2

TOM030 "EZ0EZ60

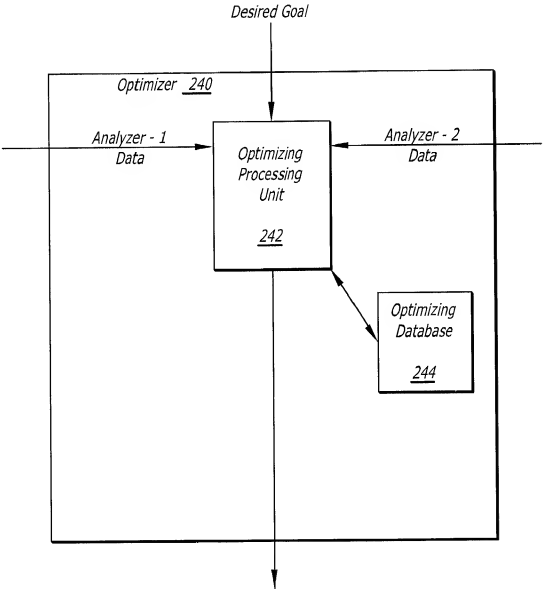

FIG. 3

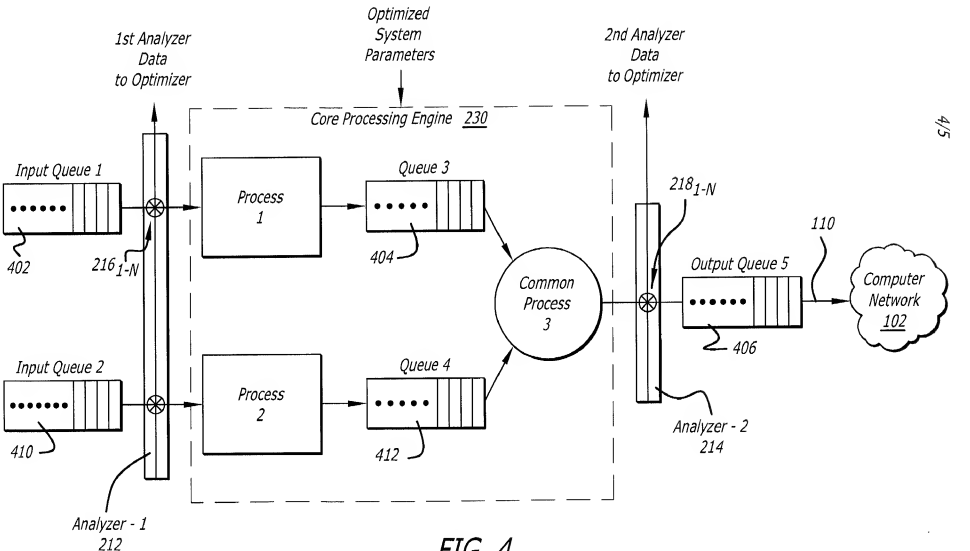
1st Analyzer Data to Optimizer
Optimized System Parameters
2nd Analyzer Data to Optimizer
Core Processing Engine 230
Input Queue 1
402
216 1-N
Process 1
Queue 3
404
Common Process 3
218 1-N
Output Queue 5
406
110
Computer Network 102
Input Queue 2
410
Process 2
Queue 4
412
Analyzer - 1 212
Analyzer - 2 214

FIG. 4

	Goal	Queue 1	Process 1	Queue 3	Process 3	Queue 5	Queue 2	Process 2	Queue 4
ROW 1	Queue 1 = Voice (High Priority) Queue 2 = Financial Data via SNA (Low Priority)	Queue = Small	High Scheduling Priority Large CPU Allocation Large Cache Allocation	Queue = Small	High Scheduling Priority Favor Queue 3 Large CPU Allocation Large Cache Allocation If Congestion Discard Queue 4	Queue = Small	Queue = Large	Low Scheduling Priority Small CPU Allocation Small Cache Allocation	Queue = Large
ROW 2	Queue 2 = Financial Data via SNA (High Priority) Queue 1 = Internet Traffic via IP (Low Priority)	Queue = Large	Low Scheduling Priority Small CPU Allocation Small Cache Allocation	Queue = Large	High Scheduling Priority Favor Queue 4 Large CPU Allocation Large Cache Allocation If Congestion Discard Other Queue	Queue = Large	Queue = Large	High Scheduling Priority Large CPU Allocation Large Cache Allocation	Queue = Large

FIG. 5